



What are "fact families"?

- $3 \times 7 = 21$ is related to $7 \times 3 = 21$ because multiplication is commutative ($a \times b = b \times a$).
- $3 \times 7 = 21$ also is related to $21 \div 7 = 3$ and $21 \div 3 = 7$ because multiplication and division are inverse operations.
- So 3, 7, and 21 make up the following family of four facts:

$3 \times 7 = 21$
$7 \times 3 = 21$
$21 \div 7 = 3$
$21 \div 3 = 7$

- Learning basic arithmetic facts in families reinforces the relationship between facts and requires significantly less memorization of isolated facts!





